GUJARAT TECHNOLOGICAL UNIVERSITY B. E. - SEMESTER -I • EXAMINATION - WINTER 2012

Subject code: 110014 Subject Name: Calculus

Time: 10.30 am - 01.30 pm

Total Marks: 70

Date: 21-01-2013

Instructions:

1. Attempt any five questions.

2. Make suitable assumptions wherever necessary.

Figures to the right indicate full marks.

Q.1 (a)

(1) Find the Taylor series expansion of $f(x) = \tan x$ in the powers of [4] $\left[x-\frac{\pi}{4}\right]$ showing at least four nonzero terms. Hence find the value of

Find $\lim_{x \to 0} \left(\frac{e^x + e^{2x} + e^{2x}}{2} \right)^{\frac{1}{x}}$

[3]

[3]

(b)

What is the average value of $f(x) = x^2 - 3x + 2$ over the closed interval (1) [4] [1, 2]? For what values of x in the given interval, the function will attain

For $I_n = \int_0^\infty \cos^n x \, dx$, $n = 2, 3, 4, \dots$, show that $I_n = \frac{n-1}{n} I_{n-2}$. Also, (2)evaluate $\int \cos^{10} x \, dx$.

Q.2

(1)[4] Show that $\lim_{n\to\infty} \frac{x^n}{n!} = 0$, where x > 0 and x remains fixed as n tends to infinity.

Test the convergence of $\frac{3}{1^2-3} + \frac{3}{2^2-3} + \frac{3}{3^2-3} + \frac{3}{4^2-3} + \dots$ [3]

(b)

Is the series $1 - \frac{1}{2} + \frac{1}{3} - \frac{1}{4} + \frac{1}{5} - \frac{1}{6} + \dots$ convergent? Does it converge (1) [3] absolutely? Give reasons.

Test the convergence of the series $\frac{x}{2.5} - \frac{x^2}{2^2.10} + \frac{x^3}{2^3.15} - \frac{x^4}{2^4.20} + \dots$ Find [4]

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Daniela Niemeyer

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